

5 WHAT IS CLAIMED IS:

1. A heat insulating container comprising:

an inner vessel and an outer vessel, wherein the inner vessel is arranged in the outer vessel with a gap therebetween;

at least a bag, arranged in the gap, wherein the gap is filled with a gas whose

10 heat-conductivity is lower than that of air; and

a reinforcement member, made of a material whose rigidity is higher than that of a composition material of the bag, arranged on at least one peripheral side of the bag.

2. A heat-insulating container according to claim 1, wherein the reinforcement member is arranged at two sides of the bag.

15 3. A heat-insulating container according to claim 1, further comprising:

a first protrusion or a first cavity, formed in at least one of the inner vessel and/or the outer vessel; and

20 a second cavity or a second protrusion corresponding to the first protrusion or the first cavity of the inner or outer vessels, formed on the reinforcement member, and wherein as the first protrusion or the first cavity of the inner or outer vessels engages with the second cavity or the second protrusion of the reinforcement member, the bag can be easily inserted into the gap.

5 4. A heat-insulating container according to claim 2, further comprising:

a first protrusion or a first cavity, formed in at least one of the inner vessel and/or
the outer vessel; and

10 a second cavity or a second protrusion corresponding to the first protrusion or
the first cavity of the inner or outer vessels, formed on the reinforcement member, and
wherein as the first protrusion or the first cavity of the inner or outer vessels engages
with the second cavity or the second protrusion of the reinforcement member, the bag
can be easily inserted into the gap.

15 5. A heat-insulating container according to claim 1, wherein the inner vessel
and the outer vessel are formed into polygonal shapes, and each of the bags is inserted
into the gap corresponding to at least two adjacent sides of the polygons, and wherein
further comprising:

20 a cavity or a protrusion, formed on each of the reinforcement member of each
bag, wherein as the protrusion or the cavity of one of the reinforcement member of one
the bags engages with the corresponding cavity or the corresponding protrusion of the
reinforcement member of the other bag, the bags can be easily inserted into the gap.

6. A heat-insulating container according to claim 2, wherein the inner vessel
and the outer vessel are formed into polygonal shapes, and each of the bags is inserted
into the gap corresponding to at least two adjacent sides of the polygons, and wherein
further comprising:

5 a cavity or a protrusion, formed on each of the reinforcement member of each bag, wherein as the protrusion or the cavity of one of the reinforcement member of one the bags engages with the corresponding cavity or the corresponding protrusion of the reinforcement member of the other bag, the bags can be easily inserted into the gap.

7. A heat-insulating container according to claim 3, wherein the inner vessel
10 and the outer vessel are formed into polygonal shapes, and each of the bags is inserted into the gap corresponding to at least two adjacent sides of the polygons, and wherein further comprising:

15 a cavity or a protrusion, formed on each of the reinforcement member of each bag, wherein as the protrusion or the cavity of one of the reinforcement member of one the bags engages with the corresponding cavity or the corresponding protrusion of the reinforcement member of the other bag, the bags can be easily inserted into the gap.

8. A heat-insulating container according to claim 4, wherein the inner vessel and the outer vessel are formed into polygonal shapes, and each of the bags is inserted into the gap corresponding to at least two adjacent sides of the polygons, and wherein
20 further comprising:

 a cavity or a protrusion, formed on each of the reinforcement member of each bag, wherein as the protrusion or the cavity of one of the reinforcement member of one the bags engages with the corresponding cavity or the corresponding protrusion of the reinforcement member of the other bag, the bags can be easily inserted into the gap.